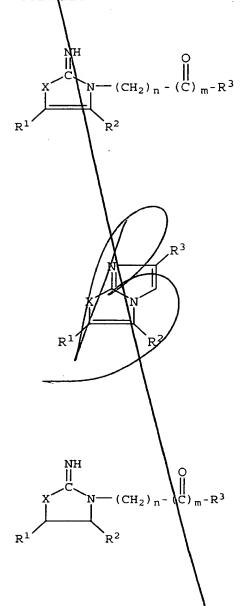
## WHAT IS CLAIMED IS:

- 1. A method of treating a disease or condition wherein inhibition of p53 activity provides a benefit comprising administering a therapeutically effective amount of a temporary p53 inhibitor to an individual suffering from the disease or condition.
- 2. The method of claim 1 wherein the disease or condition comprises a p53-deficient cancerous tumor.
- 3. The method of claim 1 wherein the disease or condition comprises hyperthermia.
- 4. The method of claim 1 wherein the disease or condition comprises hypoxia, a burn, a trauma to the central nervous system, a seizure, or an acute inflammation.
- 5. The method of claim 1 wherein the disease or condition comprises senescence of fibroblasts.

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6. The method of claim 1 wherein the temporary p53 inhibitor comprises a compound having the structural formula



or

and mixtures thereof,

wherein X is 0, S or NH

m is 0 or 1,

n is 1 to 4,

R¹ and R², independently, are selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aryl, aralkyl, alkaryl) haloalkyl, haloaryl, a heterocyclic, heteroaryl, heteroaralkyl, alkoxy, aryloxy, alkoxyalkyl aryloxyalkyl, aralkoxyalkyl, halo, (alkylthio)alkyl, (arylthio)alkyl, and (aralkylthio)alkyl,

or  $R^1$  and  $R^2$  are taken together to form an aliphatic or aromatic, 5- to 8-membered ring, either carbocyclic or heterocyclic;

 $R^3$  is selected from the group consisting of hydrogen, alkyl, haloalkyl, alkenyl, alkynyl, aryl, aralkyl, haloaryl, heteroaralkyl, a heterocycle, alkoxy, aryloxy, halo,  $NR^4R^5$ ,  $NHSO_2NR^4R^5$ ,  $NHSO_2R^4$ , and  $SO_2NR^4R^5$ ; and

R<sup>4</sup> and R<sup>5</sup>, independently, are selected from the group consisting of hydrogen, alkyl aryl, heteroaryl, and a heterocycle,

or R<sup>4</sup> and R<sup>5</sup> are taken together to form an aliphatic or aromatic, 5- to 8-membered ring, either carbocyclic or heterocyclic; and

pharmaceutically acceptable salts and hydrates thereof.

- 7. The method of claim 6 wherein the  $R^1$  through  $R^5$  groups, independently, are optionally substituted with one or more substituents selected from the group consisting of alkyl, aryl, OH,  $NR^4R^5$ , CN,  $C(=0)NR^4R^5$ ,  $SR^4$ ,  $SO_2R^4$ ,  $CO_2R^6$ ,  $OC(=0)R^6$ ,  $OR^6$ ,  $CF_3$ , halo, and  $NO_2$  wherein  $R^6$  is hydrogen or alkyl.
- 8. The method of claim 6 wherein X is S or NH; m and n each are 1 R and R<sup>2</sup>, independently, are selected from the group consisting of hydrogen, alkyl, aryl, aralkyl, alkaryl, haloalkyl, and haloaryl, or are taken together to form a 5- or 6-membered, carbocyclic or heterocyclic ring; and R<sup>3</sup> is selected from the group consisting of alkyl, haloalkyl, aryl, alkaryl, aralkyl haloaryl, and a heterocycle.
- 9. The method of claim 6 wherein X is S; m and n each are 1; R¹ and R² are taken together to form a 5- or 6-membered aliphatic carbocyclic ring; and R³ is selected from the group consisting of alkyl, haloaryl, aryl, alkaryl, aralkyl, and a heterocycle.

The\method of claim 6 wherein the p53

$$R^{1}$$
 $R^{2}$ 
 $R^{2$ 

11. The method of claim 10 wherein  $R^1$  and  $R^2$ , independently, are selected from the group consisting of hydrogen, alkyl, aryl, haloalkyl, haloaryl, aralkyl, and alkaryl, or  $R^1$  and  $R^2$  are taken together to form a 5- or 6-membered ring, carbocyclic or heterocyclic; and  $R^3$  is selected from the group consisting of alkyl, haloalkyl, aryl, alkaryl, aralkyl, and a heterocycle.

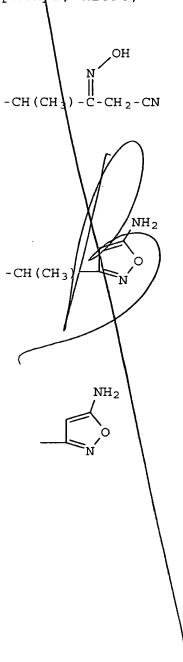
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12. The method of claim 11 wherein R<sup>3</sup> is aryl, optionally substituted with one to three substituents selected from the group consisting of halo, CF<sub>3</sub>, phenyl, alkyl, nitro, and

13. The method of claim 6 wherein the p53 inhibitor has the structure

- 14. The method of claim 13 wherein R¹ and R², independently, are selected from the group consisting of hydrogen, alkyl, aryl, haloalkyl, haloaryl, aralkyl, and alkaryl, or R¹ and R² are taken together to form a 5- or 6-membered ring, carbocyclic or heterocyclic; and R¹ is selected from the group consisting of alkyl, haloalkyl, aryl, alkaryl, aralkyl, and a heterocyclic
- 15. The method of claim 14 wherein  $R^1$  and  $R^2$ , independently, are selected from the group consisting of hydrogen, alkyl, haloalkyl, haloaryl, and aryl, or  $R^1$  and  $R^2$  are taken together to form a 5- or 6-membered carbocyclic ring; and  $R^3$  is selected from the group consisting of aryl, haloalkyl, and alkaryl.

16. The method of claim 15 wherein R<sup>3</sup> is aryl, optionally substituted with one to three substituents selected from the group consisting of halo, alkyl, CF<sub>3</sub>, phenyl, nitro,



, and

17. The method of claim 13 wherein R3 is

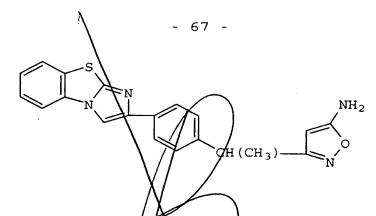
wherein w is 0 through 5, and  $R^{10}$  is selected from the group consisting of alkoxy,  $CF_3$ , alkylthio, alkyl, aralkyl, and aryl.

18. The method of claim 6 wherein the p53 inhibitor has the structure

wherein R9 is alkyl, aryl, or halo

19. The compound of claim 18 wherein R° is methyl, phenyl, or iodo.

20. The method of claim 6 wherein the p53 inhibitor has the structure



wherein  $R^3$  is selected from the group consisting of phenyl, 4-chlorophenyl, 4-nitrophenyl, 3-nitrophenyl, 4-methylphenyl, 4-phenylphenyl, and 4-bromophenyl;  $R^6$  and  $R^7$ , independently, are hydrogen or alkyl; and  $R^8$  is  $CO_2R^6$  or hydrogen.

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The method of claim 1 wherein the p53
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inhibitor comprises 2-[2-imino-4,5,6,7-tetrahydro-
1,3-benzothiazol-3(\protect{PH})-yl]-1-(4-methylphenyl)-1-
ethanone;
2-(4-methylphenyl)-5 (6,7,8-tetrahydrobenzo[d]-
imidazo[2,1-b]thiazole;
2-[2-imino-4,5,6,7-tedrahydro-1,3-benzothiazol-
3(2H)-yl]-1-(4-iodophehyl)-1-ethanone;
2-[2-imino-4,5,6,7-tetrahydro-1,3-benzothiazol-
3(2H)-yl]-1-(biphenyl)-1-ethanone;
2-phenyl-5,6,7,8-tetrahydrobenzo[d]imidazo[2,1-b]-
thiazole; 3-methyl-6-phehylimidazo[2,1-b]thiazole;
2,3-dimethyl-6-phenylimidazo(2,1-b)thiazole;
2-(4-trifluoromethylpheny),/5,6,7,8-tetrahydrobenzo-
[d] imidazo[2,1-b] thiazole;
2-(4-flourophenyl)-5,6,7,8 [tetrahydrobenzo[d]imid-
azo[2,1-b]thiazole;
2-(4-nitrophenyl)-5,6,7,8 tetrahydrobenzo[d]imid-
azo[2,1-b]thiazole;
2-(3-nitrophenyl)-5,6,7,8 tet ahydrobenzo[d]imid-
azo[2,1-b]thiazole; or a mixture thereof,
          and pharmaceutically acceptable salts and
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22. A method of reducing or eliminating normal cell death attributable to a treatment of a disease or condition comprising administering a therapeutically effective amount of a temporary p53 inhibitor to a mammal to reversibly inhibit p53 activity.

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hydrates thereof.

- 23. The method of claim 22 wherein the disease or condition is a cancer, hyperthermia, hypoxia, stroke, ischemia, acute inflammation, a burn, or cell aging.
- 24. The method of claim 23 wherein the disease is a cancer comprising a tumor that lacks functional p53.
- 25. A method of reducing or eliminating normal cell death attributable to contraction of a disease comprising administering a therapeutically effective amount of a temporary p53 inhibitor to a mammal to reversibly inhibit p53 activity.
- 26. A method of reducing or eliminating damage to normal tissue attributable to a treatment for cancer comprising administering a therapeutically effective of a temporary p58 inhibitor to a mammal to reversibly inhibit p53 activity.
- 27. The method of claim 26 wherein the cancer treatment comprises chemotherapy.
- 28. The method of claim 26 wherein the cancer treatment comprises radiation therapy.
- 29. A cancer treatment composition comprising:
  - (a) a chemotherapeutic  $dr\psi g$ ; and
  - (b) a temporary p53 inhibitor.

- 30. An improved method of treating cancer comprising administration of a therapeutically effective radiation dose to a mammal to treat a cancer, and administration of a therapeutically effective amount of a temporary p53 inhibitor to the mammal to reversibly inhibit p53 activity;
- 31. The method of claim 30 wherein the radiation dose and p53 inhibitor are administered simultaneously.
- 32. The method of claim 30 wherein the p53 inhibitor is administered prior to administration of the radiation dose.
- 33. A method of preventing cell death attributable to a stress-inducing event affecting the cell, said method comprising treating the cell with therapeutically effective of a compound of a temporary p53 inhibitor to reversibly inhibit p53 activity.
- 34. The method of claim 33 wherein the stress-inducing event comprises a cancer treatment, a trauma, hyperthermia, hypoxia, ischemia, stroke, a burn, a seizure, a tissue or brgan prior to transplanting, preparing a host for Done marrow transplant, or DNA damage.
- 35. The method of claim 33 wherein p53 activity is inhibited for a sufficient time for the cell to recover from the stress-indicing event.

- 36. A pharmaceutical composition for treating a disease comprising
- (a) a drug capable of treating the disease, and
  - (b) a temporary p53 inhibitor.
- 37. A pharmaceutical composition comprising
  - (a) a temporary \$53 inhibitor, and
  - (b) a carrier.
- 38. A method of modulating tissue aging comprising treating the tissue with a therapeutically effective amount of a temporary p53 inhibitor to reversibly inhibit p53 activity.
- 39. A method of sensitizing p53-deficient cells to a cancer therapy comprising administering, in conjunction with the cancer therapy, a sufficient amount of a temporary p53 inhibitor to a mammal to destroy p53-deficient cells that survive in an absence of the p53 inhibitor.

- 40. An improved method of treating cancer comprising administration of a therapeutically effective dose of a chemotherapeutic agent to a mammal to treat a cancer, and administration of a sufficient amount of a temporary p53 inhibitor to the mammal to reversibly inhibit p53 activity, wherein the dose of the chemotherapeutic agent is greater than a dose of the identical chemotherapeutic agent required to treat the cancer in the absence of administration of the p53 inhibitor.
- 41. The method of claim 40 wherein the mammal is free of a cancer induced by temporary p53 suppression.
- 42. A method of reducing or eliminating p53-mediated side effects associated with a cancer therapy comprising administering a therapeutically effective dose of a temporary p53 inhibitor to a mammal in conjunction with the cancer therapy.
- 43. The method of dlaim 42 wherein the cancer therapy comprises radiation therapy.
- 44. The method of claim 42 wherein the cancer therapy comprises chemotherapy.
- 45. The method of claim 42 wherein the p53-mediated side effect comprises one or more of hair loss, testicular cell damage, intestinal epithelia cell damage, lymphoid system damage, or hemapoietic system damage.